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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/629,064	07/28/2003	Gregory S. Herman	200309681-1	5845
22879 7	590 07/05/2006		EXAMINER	
HEWLETT PACKARD COMPANY P O BOX 272400, 3404 E. HARMONY ROAD INTELLECTUAL PROPERTY ADMINISTRATION FORT COLLINS, CO 80527-2400			RUTHKOSKY, MARK	
			ART UNIT	PAPER NUMBER
			1745	
			DATE MAIL ED: 07/05/2006	4

Please find below and/or attached an Office communication concerning this application or proceeding.

		$\sim$			
	Application No.	Applicant(s)			
Office Action Commence	10/629,064	HERMAN ET AL.			
Office Action Summary	Examiner	Art Unit			
	Mark Ruthkosky	1745			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the d	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPL' WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication.  If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tiruly vill apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. nely filed the mailing date of this communication. ED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 09 D	ecember 2005.				
Pa) This action is <b>FINAL</b> . 2b) This action is non-final.					
3) Since this application is in condition for allowar	nce except for formal matters, pro	osecution as to the merits is			
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.			
Disposition of Claims					
4) Claim(s) 1-58 is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6) ☐ Claim(s) is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) <u>1-58</u> are subject to restriction and/or e	election requirement.				
Application Papers					
9) The specification is objected to by the Examine	r.				
10) The drawing(s) filed on is/are: a) acce	epted or b) objected to by the	Examiner.			
Applicant may not request that any objection to the	- · · ·	• •			
Replacement drawing sheet(s) including the correct		· · · · · · · · · · · · · · · · · · ·			
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	priority under 35 U.S.C. § 119(a)	)-(d) or (f).			
1. Certified copies of the priority documents	s have been received.				
2. Certified copies of the priority documents have been received in Application No					
<ol><li>Copies of the certified copies of the prior</li></ol>	ity documents have been receive	ed in this National Stage			
application from the International Bureau	• • • • • • • • • • • • • • • • • • • •				
* See the attached detailed Office action for a list	of the certified copies not receive	ed.			
Attachment(s)					
) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)			
Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate			
Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	6) Other:	atent Application (PTO-152)			

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## RESTRICTION

Restriction to one of the following inventions is required under 35 U.S.C. 121:

 Claims 1-14, drawn to a method of applying a dopant to a substrate, classified in class 427, subclass 58.

- II. Claims 15-23, drawn to a dopant application apparatus, classified in class 425, subclass 110.
- III. Claims 24-34, drawn to a substrate processing system, classified in class 438, subclass 758.
- IV. Claims 35-47, drawn to a gradient doped substrate and a fuel cell including the substrate, classified in class 429, subclass 41.
- V. Claims 35-41 and 48-53, drawn to an electronic device, classified in class 429, subclass 17.
- VI. Claims 54-58, drawn to a system for applying a dopant to a substrate, classified in class 427, subclass 1.

The inventions are distinct, each from the other because of the following reasons:

Inventions I and II are related as process and apparatus for its practice. The inventions are distinct if it can be shown that either: (1) the process as claimed can be practiced by another and materially different apparatus or by hand, or (2) the apparatus as claimed can be used to practice another and materially different process. (MPEP § 806.05(e)). In this case, the generic process can be practiced by another apparatus or by hand. Invention III is to a substrate processing system. The system is different than the apparatus of group II and is not related to

group I. Invention IV is to a substrate and a fuel cell using the substrate. Inventions I and IV are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make another and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case, the product as claimed can be made by another and materially different process such as etching a substrate and applying a coating to the substrate by chemical vapor deposition in multiple steps. Invention V is to an electronic device that includes a substrate. The invention is not related to any other group. Invention VI is to a system for applying dopant to a substrate by different steps than any other claimed process.

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Because these inventions are independent or distinct for the reasons given above and have acquired a separate status in the art in view of their different classification, restriction for examination purposes as indicated is proper.

Because these inventions are independent or distinct for the reasons given above and the inventions require a different field of search (see MPEP § 808.02), restriction for examination purposes as indicated is proper.

Because these inventions are independent or distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

## **Examiner Correspondence**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mark Ruthkosky whose telephone number is 571-272-1291. The examiner can normally be reached on FLEX schedule (generally, Monday-Thursday from 9:00-6:30.) If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Ryan can be reached at 571-272-1292. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Mark Ruthkosky

Primary Patent Examiner

Art Unit 1745

WILLIAM PUTHICOSKY

DOMARY EXAMINER